



WIRELESS FLASH TRIGGER V4

USER MANUAL

INTRODUCTION

This Cactus V4 Wireless Flash Trigger is a powerful yet stable device to command external flashes wirelessly. With this wireless flash trigger, you can place different flashes at various angles and distances from the object without being hindered by wires.

The transmitter is made of advanced electronic circuits and components. Its special energy-saving design allows a new battery to last a year when the unit is in the standby mode or triggers 20,000 times continuously. Triggering current is only 0.01mAh. It is safe to use with all cameras (film and digital) and flashes (studio strobes and portable flashes).

Each receiver works with one flash. Number of receivers to be used with a transmitter is unlimited. In other words, you can control as many external flashes as you wish provided that you have enough receivers to work with them.

Cactus V4 Wireless Flash Trigger offers many improved features from the V2s version. Amongst these improvements is a new antenna design increasing the reliability and effective distance to 30 meters / 98 feet (in open area without interference).

V4 receiver uses AAA batteries, a more convenient and popular battery source. The 16 selectable channels and advanced anti-interference feature allow the device to work within the effective area without interfered by other channels.

This wireless flash trigger set offers high degree of compatibility. With the provided connection cables, you can use the receiver with a range of lighting sources including low trigger voltage portable flashes, high trigger voltage portable flashes and studio strobes.

Thank you for choosing CACTUS. We hope that this product will help you create your desired off camera lighting effects.

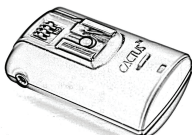
Trademark Information

CACTUS™ is a registered trademark of Harvest One Limited in Hong Kong and the USA.

PACKAGE CONTENTS



V4 Transmitter



*V4 Receiver



User Manual



"When Light Dances" Album



*3.5mm Plug Cable (CA-350)



*6.35mm Plug Cable (CA-635)



AAA Battery (x2)

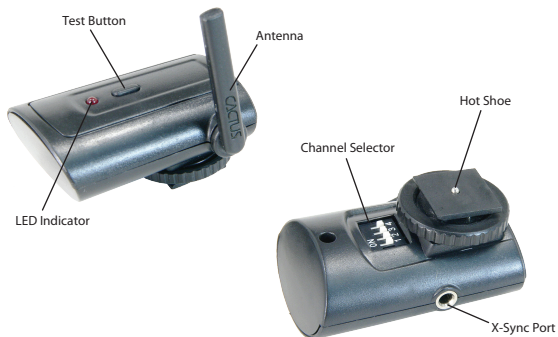


*PC Sync Cable (CA-100)

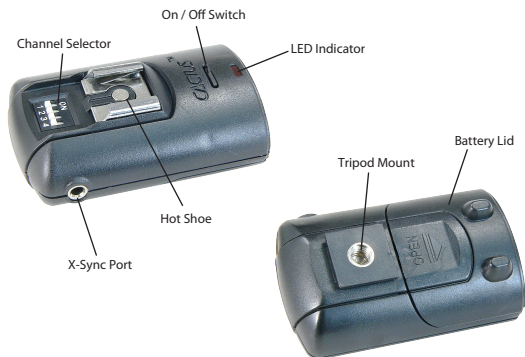
* also available as optional accessories

NOMENCLATURE

Transmitter



Receiver



Batteries

CAUTION

1. Turn OFF your equipments (Cactus units, flash units and cameras, etc.) before changing batteries or making connection. Observe the correct polarity when changing batteries. There is danger of explosion if battery is installed incorrectly.
2. Never touch the PCB board or any electronic components when changing batteries in the transmitter.
3. Remove batteries and switch off the receiver during storage.
4. Do not remove battery covers during operation.
5. Do not operate the device in the presence of flammable gases or fumes.

Install two (2) AAA size 1.5V batteries (IEC: R03) into the receiver and one (1) L1028 23A 12V battery into the transmitter. Alkaline batteries are recommended. Rechargeable batteries also work but operation time may be reduced.

When LED on the receiver or transmitter stops blinking, it is time to change batteries. Battery life of receiver is approximately 10,000 flashes under typical use while battery life of transmitter is approximately 20,000 triggers.

Operation

1. **For portable external flash**

Connect the hot shoe of the external flash to that of the receiver, or connect the receiver to the flash's PC sync port by using PC Sync cable (CA-100).

For studio strobes

Connect the receiver to your studio strobe by using 3.5mm plug cable (CA-350) or 6.35mm plug cable (CA-635) according to port size of your strobe.

2. Switch on the power of the receiver.
3. Set the channel of the receiver according to the table in page 6 so that it is the same as that of the transmitter. The switch of the receiver locates next to the hot shoe connection.

OPERATION

4. Press the test button of the transmitter. Both LED lights of the transmitter and receiver should blink simultaneously when the test button is pressed. It indicates that both the transmitter and the receiver are working in good condition.
5. Attach the hot shoe of the transmitter to the hot shoe of the camera.
6. If your camera does not have a hot shoe, connect the transmitter to the camera via PC sync cable (CA-100).
7. More than one receiver can be used to work with a transmitter. Extra V4 receivers and connection cables can be purchased separately for your set up.

Channel Setup

There are four small switches located at the bottom of the transmitter and the top of the receiver. Sixteen channels can be tuned according to different combinations of the switches. Only when the channel of the transmitter matches that of the receiver will the external flash be triggered off.

The combinations are as follows ("0" stands for UP while "1" stands for DOWN):

Channel No.	Switch 1	Switch 2	Switch 3	Switch 4
1	0	0	0	0
2	0	0	0	1
3	0	0	1	0
4	0	0	1	1
5	0	1	0	0
6	0	1	0	1
7	0	1	1	0
8	0	1	1	1
9	1	0	0	0
10	1	0	0	1
11	1	0	1	0
12	1	0	1	1
13	1	1	0	0
14	1	1	0	1
15	1	1	1	0
16	1	1	1	1

MAJOR SPECIFICATIONS

- Working radio frequency: 433Mz
- 16 channels selectable
- Responding time: 1/500 - 1/1000 second
- Support sync speed: up to 1/500 second (depending on sync speed limitation of the flash unit)
- Maximum effective area: 30 meters / 98 feet (open area without interference)
- Operating temperature: above -10°C (14°F) and below 45°C (113°F)

Transmitter

- Camera voltage handling: up to 6 volts
- Compatible to all cameras with standard ISO hot shoe or PC sync output
- Connection port: 3.5 mm (1/8") mono mini-phone
- Dimensions: 60 x 46 x 27 mm
- Length of antenna: 45 mm
- Weight (including battery): 33 grams
- Power input: one (1) L1028 / 23A 12V battery

Receiver

- Innovative standing design: supports major portable flash units
- Flash voltage handling: up to 300 volts
- Compatible to portable flashes and studio strobes
- Connection port: 3.5 mm (1/8") mono mini-phone
- Dimensions: 74 x 45 x 28 mm
- Weight (including battery): 55 grams
- Power input: two (2) AAA size 1.5V (IEC: R03) batteries

TROUBLE SHOOTING

Please make sure that:

1. Any plastic wrapping of the batteries in transmitter or receiver has been removed.
2. Batteries on both the transmitter and receiver are new.
3. Batteries are inserted in correct polarity.
4. Receiver has been switched to "ON" (with red indicator).
5. The channels of both transmitter and receiver match each other.

Problem	Status LED	Solution
Pressing the shutter of the camera does not trigger the flash.	Transmitter does not blink.	<ul style="list-style-type: none">➤ Check connection between the camera and transmitter. Screw the transmitter tight to the camera's hot shoe.➤ Change the battery of the transmitter.
	Transmitter blinks, receiver does not blink.	<ul style="list-style-type: none">➤ Change the battery of the receiver.➤ Check whether the channels of the transmitter and receiver match each other.➤ Make sure the receiver has been switched ON.➤ Make sure the transmitter and receiver are placed within 30 meters / 98 feet.➤ Change both transmitter and receiver to a different channel and try again.
	Both transmitter and receiver blink.	<ul style="list-style-type: none">➤ Check connection between the flash and receiver. Lock or unlock the flash hot shoe to the receiver and try again.➤ Make sure the flash unit has trigger voltage of 300 volts or below.➤ Make sure to trigger the flash only after it has been refreshed. Check the status LED of your flash.➤ Try another flash model to verify whether it is a compatibility issue (also see Notes on Dedicated TTL Flashes on page 9).

Problem	Status LED	Solution
Flash misfires.	Receiver does not blink.	➤ Turn off the slave mode or wireless mode of your flash unit and try again.
	Receiver blinks.	➤ Switch both transmitter and receiver to a different channel. ➤ Move your setup to some other area to refrain from RF interference.

Notes on Dedicated TTL Flashes

1. Cactus V4 does not transmit TTL information.
2. Some dedicated flashes (e.g. Nissin Di-622, Di-466) are triggered via system-specific pins instead of the central contact of the hot shoe. Cactus V4 trigger does not work with these flash models. To check whether your dedicated flash units are compatible with Cactus V4, try attaching them to a camera of other brand (e.g. attaching a Nikon TTL flash to a Canon DSLR camera). If the flash can be triggered, it will work with Cactus V4.

NOTICES

NOTICES FOR CUSTOMERS IN THE U.S.A.

Federal Communications Commission (FCC) Radio Frequency Interference Statements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

HARVEST ONE LIMITED AND THE MANUFACTURER OF THIS WIRELESS FLASH TRIGGER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT



FCC ID: VAAWFTV4
MADE IN CHINA

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The limited warranty set forth below is given by Harvest One Limited in the world with respect to the Cactus brand Wireless Flash Trigger purchased with this limited warranty.

Your Cactus Wireless Flash Trigger or other contents, when delivered to you in new condition in its original container, is warranted against defects in materials or workmanship as follows: for a period of one (1) year from the date of original purchase, defective parts or a defective Wireless Flash Trigger returned to our authorized dealers, as applicable, and proven to be defective upon inspection, will be repaired with new or comparable rebuilt parts or exchanged for a new Wireless Flash Trigger as determined by Harvest One Limited or the authorized dealers.

This limited warranty shall only apply if the Wireless Flash Trigger is used in conjunction with compatible camera and flash equipment, as to which items, Harvest One Limited, shall have no responsibility.

This limited warranty covers all defects encountered in normal use of the Wireless Flash Trigger, and does not apply in any of the following cases:

- (a) Loss of or damage to the Wireless Flash Trigger due to abuse, mishandling, improper packaging by you, alteration, accident, electrical current fluctuations.
- (b) Failure to follow operating, maintenance or environmental instructions prescribed in Cactus user's manual.
- (c) Receive services performed by someone other than Harvest One Limited or authorized dealers.
- (d) Without limiting the foregoing, water damage, sand/corrosion damage, battery leakage, dropping the trigger, scratches, abrasions or damage to the body, or damage to the hot shoe or PC cables, will be presumed to have resulted from misuse, abuse or failure to operate the Wireless Flash Trigger as set forth in the operating instructions.

NO IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLIES TO THE WIRELESS FLASH TRIGGER AFTER THE APPLICABLE PERIOD OF THE EXPRESS LIMITED WARRANTY STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY,

EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON OR ENTITY WITH RESPECT TO THE WIRELESS FLASH TRIGGER SHALL BIND HARVEST ONE LIMITED. HARVEST ONE LIMITED SHALL NOT BE LIABLE FOR LOSS OF REVENUES OR PROFITS, INCONVENIENCE, EXPENSE FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, LOSS OR CORRUPTION OF DATA OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE OR MISUSE OF, OR INABILITY TO USE, THE WIRELESS FLASH TRIGGER, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF HARVEST ONE LIMITED HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL RECOVERY OF ANY KIND AGAINST HARVEST ONE LIMITED GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE CACTUS WIRELESS FLASH TRIGGER SOLD BY HARVEST ONE LIMITED OR ITS AUTHORIZED DEALERS AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE OR MISUSE OF, OR INABILITY TO USE, THE CACTUS WIRELESS FLASH TRIGGER NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF HARVEST ONE LIMITED. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF HARVEST ONE LIMITED, OR THE PERSON FOR WHOM IT WAS PURCHASED AS A GIFT, AND STATES YOUR EXCLUSIVE REMEDY.

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